

Amendments to the Claims

1.(currently amended) In a system for creating documents from processed data, an apparatus for forming processed data comprising:

- a) a data storage device for storing the processed data;
- b) a form engine connected to said data storage device for formatting the processed data in said data storage device in accordance with predetermined high level rules wherein said predetermined high level rules are applied until met or until a maximum of permitted change is reached, whichever occurs first, and wherein said predetermined high level rules include a fail safe rule that ensures a guaranteed output of formatted data from the processed data when all said predetermined rules can not be met; and
- c) an output device connected to said form engine for outputting formatted data created from said form engine.

2.(original) The apparatus of Claim 1 wherein said predetermined high level rules use loose value tradeoffs for formatting processed data.

3. (original) The apparatus of Claim 2 wherein said loose value tradeoffs are selected from a group including: fit all data on one page; cleanly define text columns; bold face first line of new text; and shrink photos proportionally with text.

4. (original) The apparatus of Claim 2 further comprising sublevels of loose value tradeoffs.

5.(original) The apparatus of Claim 3 wherein loose value tradeoff -fit all data on one page- further includes sublevel loose value trade offs: reduce font, shrink photos and graphics proportional with font, reduce length of some data fields, and shrink margin.

6. (original) The apparatus of Claim 1 wherein the output device is a printer.

7.(currently amended) In a system for creating documents from processed data, an apparatus for forming processed data comprising:

- a) a data storage means for storing processed data;

- b) a form engine means connected to said data storage means, for formatting the processed data in accordance with predetermined high level rules using loose value tradeoffs wherein said predetermined high level rules are applied until met or until a maximum of permitted change is reached, whichever occurs first, and wherein said predetermined high level rules include a fail safe rule that ensures a guaranteed output of formatted data from the processed data when all said predetermined rules can not be met; and
- c) an output means connected to said form engine means for outputting formatted documents from said form engine means.

8. (original) The apparatus of Claim 7 wherein said loose value tradeoffs are selected from a group including: fit all data on one page; cleanly define text columns; bold face first line of new text; and shrink photos proportionally with text.

9. (original) The apparatus of Claim 7 further comprising sublevels of loose value tradeoffs.

10.(original) The apparatus of Claim 8 wherein loose value tradeoff -fit all data on one page- further includes sublevel loose value tradeoffs: reduce font, shrink photos and graphics proportional with font, reduce length of some data fields, and shrink margin.

11.(currently amended) In a system for creating documents from processed data, a method of forming processed data comprising the steps of:

- a) providing a data storage device for storing processed data;
- b) adding processed data to said data storage device;
- c) connecting a form engine to said data storage device and formatting the processed data in accordance with predetermined high level rules wherein said predetermined high level rules are applied until met or until a maximum of permitted change is reached, whichever occurs first, and wherein said predetermined high level rules include a fail safe rule that is applied to ensure a guaranteed output of formatted data from the processed data when all said predetermined rules can not be met ; and
- d) connecting an output device to the form engine and outputting formatted data from said form engine.

12. (original) The method of Claim 11 wherein the predetermined high level rules use loose value tradeoffs for formatting processed data.

13.(original) The method of Claim 12 further comprising the step of selecting said loose value tradeoffs from a group including: fit all data on one page; cleanly define text columns; bold face first line of new text; and shrink photos proportionally with text.

14. (original) The method of Claim 12 further comprising the step of adding sublevels of said loose value tradeoffs.

15.(original) The method of Claim 14 further comprising the step of adding sublevel loose value tradeoffs: reduce font, shrink photos and graphics proportional with font, reduce length of some data fields, and shrink margins.

16.(currently amended) In a system for creating documents from processed data, computer code recorded on a computer readable medium for forming processed data comprising:

- a) computer code for a data storage system for storing processed data;
- b) computer code for a form engine linked to said data storage system for formatting the processed data in accordance with predetermined high level rules wherein said predetermined high level rules are applied until met or until a maximum of permitted change is reached, whichever occurs first, and wherein said predetermined high level rules include a fail safe rule that ensures a guaranteed output of formatted data from the processed data when all said predetermined rules can not be met; and
- c) computer code for an output system linked to said form engine for outputting formatted data created from said form engine processing.

17.(original) The invention of Claim 16 wherein said predetermined rules further comprise computer code for using loose value tradeoffs for formatting processed data.

18. (original) The invention of Claim 17 wherein said computer code for using loose value tradeoffs is selected from a group of computer codes including: fit all data on one page;

cleanly define text columns; bold face first line of new text; and shrink photos proportionally with text.

19. (original) The invention of Claim 17 further comprising computer code for sublevels of loose value tradeoffs.

20. (original) The invention of Claim 18 wherein said computer code for- fit all data on one page- further comprises computer code for sublevel loose value tradeoffs: reduce font, shrink photos and graphics proportional with font, reduce length of some data fields, and shrink margin.

21.(new) The apparatus of Claim 1 wherein the fail safe rule that ensures a guaranteed output of formatted data from the processed data when all said predetermined rules can not be met comprises cutting data to one page.

22.(new) The apparatus of Claim 1 wherein the fail safe rule that ensures a guaranteed output of formatted data from the processed data when all said predetermined rules can not be met comprises wrapping data to two pages.

23.(new) The method of Claim 11 wherein the fail safe rule that ensures a guaranteed output of formatted data from the processed data when all said predetermined rules can not be met comprises cutting data to one page.

24.(new) The method of Claim 11 wherein the fail safe rule that ensures a guaranteed output of formatted data from the processed data when all said predetermined rules can not be met comprises wrapping data to two pages.

25.(new) The invention of Claim 16 wherein the fail safe rule that ensures a guaranteed output of formatted data from the processed data when all said predetermined rules can not be met comprises cutting data to one page.

26.(new) The invention of Claim 16 wherein the fail safe rule that ensures a guaranteed output of formatted data from the processed data when all said predetermined rules can not be met comprises wrapping data to two pages.

- 27.(new) A method of formatting print data, comprising:
establishing a higher level formatting rule for the print data;
establishing lower level formatting rules configured to change the print data to conform to the higher level rule;
establishing a fail safe rule that when applied to the print data conforms the print data to the higher level rule;
applying the lower level rules to the print data; and
applying the fail safe rule to the print data if applying the lower level rules to the print data does not conform the print data to the higher level rule.
- 28.(new) The method of Claim 27 further comprising establishing a maximum of permitted change for one or more of the lower level rules and wherein applying the lower level rules to the print data comprises applying each lower level rule until the rule is met or until a maximum of permitted change for the rule is reached, whichever occurs first.
- 29.(new) The method of Claim 27 wherein the higher level formatting rule comprises fitting all of the print data on one page and the fail safe rule comprises cutting the print data.
- 30.(new) The method of Claim 27 wherein the print data comprises data representing one or more of static text, dynamic text, static graphics or dynamic graphics.
- 31.(new) A computer readable medium having computer code thereon for:
establishing a higher level formatting rule for the print data;
establishing lower level formatting rules configured to change the print data to conform to the higher level rule;
establishing a fail safe rule that when applied to the print data conforms the print data to the higher level rule;
applying the lower level rules to the print data; and
applying the fail safe rule to the print data if applying the lower level rules to the print data does not conform the print data to the higher level rule.
- 32.(new) The medium of Claim 31 having code thereon for establishing a maximum of permitted change for one or more of the lower level rules and wherein the code for applying

the lower level rules to the print data comprises code for applying each lower level rule until the rule is met or until a maximum of permitted change for the rule is reached, whichever occurs first.

33.(new) The medium of Claim 31 wherein the higher level formatting rule comprises code for fitting all of the print data on one page and the fail safe rule comprises cutting the print data.

34.(new) The medium of Claim 31 wherein the print data comprises data representing one or more of static text, dynamic text, static graphics or dynamic graphics.

Respectfully submitted,

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